AMENDMENTS TO THE CLAIMS

Listing of claims:

(Currently Amended) A method for providing seamless connectivity

and communication in a multi-band, multi-protocol network, the method

comprising:

initially authenticating an access device upon said access device initiating

communication with a first access point;

providing authentication information related to said initial authentication to

at least one of a second access point and a third access point; and

servicing said access device without re-authenticating said access device

by one of said first access point, said second access point and said third access

point based on said initial authentication.

2. (Previously Presented) The method according to claim 1, comprising

storing said initial authentication information.

3. (Previously Presented) The method according to claim 2, comprising

retrieving said stored initial authentication information by said second access point

and said third access point.

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4. (Previously Presented) The method according to claim 3, wherein

said retrieving comprises retrieving said initial authentication information by said

second access point when said access device migrates from a first coverage area

associated with said first access point to a second coverage area associated with

said second access point.

5. (Previously Presented) The method according to claim 4, wherein

said retrieving comprises retrieving said initial authentication information by said

third access point when said access device migrates from one of said first

coverage area and said second coverage area to a third coverage area associated

with said third access point.

(Previously Presented) The method according to claim 3, wherein

said retrieving comprises retrieving said initial authentication information upon said

access device initiating communication with said second access point.

7. (Previously Presented) The method according to claim 3, wherein

said retrieving comprises retrieving said initial authentication information upon said

access device initiating communication with said third access point.

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8. (Previously Presented) The method according to claim 1, comprising

distributing said initial authentication information to said second access point and

said third access point upon said initial authenticating.

9. (Previously Presented) The method according to claim 5, comprising

transparently transferring said initial authentication information to said second

access point during a handoff of said access device from said first access point to

said second access point.

10. (Previously Presented) The method according to claim 5, comprising

transparently transferring said initial authentication information to said third access

point during a handoff of said access device from one of said first access point and

said second access point to said third access point.

11. (Currently Amended) A computer-readable media, having stored

thereon, a computer program having at least one code section for providing

seamless connectivity and communication in a multi-band multi-protocol hybrid

wired/wireless network, the at least one code section being executable by a

machine for causing the machine to perform steps comprising:

initially authenticating an access device upon said access device initiating

communication with a first access point;

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providing authentication information related to said initial authentication to

at least one of a second access point and a third access point; and

servicing said access device without re-authenticating said access device

by one of said first access point, said second access point and said third access

point based on said initial authentication.

12. (Previously Presented) The computer-readable media according to

claim 11, wherein said at least one code section comprises code for storing said

initial authentication information.

13. (Previously Presented) The computer-readable media according to

claim 12, wherein said at least one code section comprises code for retrieving said

stored initial authentication information by said second access point and said third

access point.

14. (Previously Presented) The computer-readable media according to

claim 13, wherein said at least one code section comprises code for retrieving said

initial authentication information by said second access point when said access

device migrates from a first coverage area associated with said first access point

to a second coverage area associated with said second access point.

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15. (Previously Presented) The computer-readable media according to

claim 14, wherein said at least one code section comprises code for retrieving said

initial authentication information by said third access point when said access

device migrates from one of said first coverage area and said second coverage

area to a third coverage area associated with said third access point.

16. (Previously Presented) The computer-readable media according to

claim 13, wherein said at least one code section comprises code for retrieving said

initial authentication information upon said access device initiating communication

with said second access point.

17. (Previously Presented) The computer-readable media according to

claim 13, wherein said at least one code section comprises code for retrieving said

initial authentication information upon said access device initiating communication

with said third access point.

18. (Previously Presented) The computer-readable media according to

claim 11, wherein said at least one code section comprises code for distributing

said initial authentication information to said second access point and said third

access point upon said initial authenticating.

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19. (Previously Presented) The computer-readable media according to

claim 15, wherein said at least one code section comprises code for transparently

transferring said initial authentication information to said second access point

during a handoff of said access device from said first access point to said second

access point.

20. (Previously Presented) The computer-readable media according to

claim 15, wherein said at least one code section comprises code for transparently

transferring said initial authentication information to said third access point during

a handoff of said access device from one of said first access point and said

second access point to said third access point.

21. (Currently Amended) A system for providing seamless connectivity

and communication in a multi-band, multi-protocol network, the system

comprising:

at least one processor for initially authenticating an access device upon

said access device initiating communication with a first access point;

said at least one processor for providing authentication information related

to said initial authentication to at least one of a second access point and a third

access point; and

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said one of said-first-access-point, said second access point and said third access point providing service without re-authenticating [fto1] said access device

based on said initial authentication..

22. (Previously Presented) The system according to claim 21,

comprising at least one memory for storing said initial authentication information.

23. (Previously Presented) The system according to claim 22, wherein

said at least one processor retrieves said stored initial authentication information

by said second access point and said third access point.

24. (Previously Presented) The system according to claim 23, wherein

said at least one processor retrieves said initial authentication information by said

second access point when said access device migrates from a first coverage area

associated with said first access point to a second coverage area associated with

said second access point.

25. (Previously Presented) The system according to claim 24, wherein

said at least one processor retrieves said initial authentication information by said

third access point when said access device migrates from one of said first

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coverage area and said second coverage area to a third coverage area associated

with said third access point.

26. (Previously Presented) The system according to claim 23, wherein

said at least one processor retrieves said initial authentication information upon

said access device initiating communication with said second access point.

27. (Previously Presented) The system according to claim 23, wherein

said at least one processor retrieves said initial authentication information upon

said access device initiating communication with said third access point.

28. (Previously Presented) The system according to claim 21, wherein

said at least one processor distributes said initial authentication information to said

second access point and said third access point upon said initial authenticating.

29. (Previously Presented) The system according to claim 25, wherein

said at least one processor transparently transfers said initial authentication

information to said second access point during a handoff of said access device

from said first access point to said second access point.

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30. (Previously Presented) The system according to claim 25, wherein

said at least one processor transfers said initial authentication information to said

third access point during a handoff of said access device from one of said first

access point and said second access point to said third access point.

31. (Previously Presented) The system according to claim 25, wherein

said at least one processor is an authentication processor, a switch processor, an

access point processor and a server processor.

32. (New) The method according to claim 8, wherein said distributing of

said initial authentication information to said second access point and said third

takes place upon said access device initiating communication or authentication

with said first access point.

33. (New) The method according to claim 32, comprising updating said

initial authentication information within said first access point, said second access

point or said third access point, wherein said updating is initiated by a different

access device selected from any one of said first access point, said second

access point and said third access point.

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34. (New) The computer-readable media according to claim 18, wherein

said distributing of said initial authentication information to said second access

point and said third takes place upon said access device initiating communication

or authentication with said first access point.

35. (New) The computer-readable media according to claim 34.

comprising updating said initial authentication information within said first access

point, said second access point or said third access point, wherein said updating is

initiated by a different access device selected from any one of said first access

point, said second access point and said third access point.

36. (New) The system according to claim 28, wherein said at least one

processor distributes said initial authentication information to said second access

point and said third, upon said access device initiates communication or

authentication with said first access point.

37. (New) The system according to claim 36, wherein said initial

authentication information within said first access point, said second access point

or said third access point is updated by a different access device selected from

any one of said first access point, said second access point and said third access

point.

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